



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/072,602 A
Source: C1P8
Date Processed by STIC: 8-13-02

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

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Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
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Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202
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Revised 01/29/2002

Does Not Comply
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see p. 6 - 10
error on page 3

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/072,602A

DATE: 08/13/2002

TIME: 14:18:04

Input Set : A:\249 revised sequence.txt
Output Set: N:\CRF3\08132002\J072602A.raw

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3 <110> APPLICANT: University of Utah Research Foundation
4     Cognetix, Inc.
5     Olivera, Baldomero M.
6     McIntosh, J, Michael
7     Watkins, Maren
8     Garrett, James E.
9     Cruz, Lourdes J.
10    Grilley, Michelle
11    Schoenfeld, Robert M.
12    Walker, Craig
13    Shetty, Reshma
14    Jones, Robert M.
16 <120> TITLE OF INVENTION: Cone Snail Peptides
18 <130> FILE REFERENCE: 2314-249
C--> 20 <140> CURRENT APPLICATION NUMBER: US/10/072,602A
C--> 20 <141> CURRENT FILING DATE: 2002-02-11
20 <150> PRIOR APPLICATION NUMBER: US 60/267,408
21 <151> PRIOR FILING DATE: 2001-02-09
23 <160> NUMBER OF SEQ ID NOS: 638
25 <170> SOFTWARE: PatentIn version 3.0
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28 <211> LENGTH: 290
29 <212> TYPE: DNA
30 <213> ORGANISM: Conus ammiralis
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39     1           5           10          15
41 tcg acc cag gcc ctg gtt gaa cgt gct gga gaa aac cgc tca aag gag      96
42 Ser Thr Gln Ala Leu Val Glu Arg Ala Gly Glu Asn Arg Ser Lys Glu
43             20           25           30
45 aac atc aat ttt tta tta aaa aga aag aga gct gct gac agg ggg atg      144
46 Asn Ile Asn Phe Leu Leu Lys Arg Lys Arg Ala Ala Asp Arg Gly Met
47             35           40           45
49 tgg ggc gat tgc aaa gat ggg tta acg aca tgt ttt gcg ccc tca gag      192
50 Trp Gly Asp Cys Lys Asp Gly Leu Thr Thr Cys Phe Ala Pro Ser Glu
51             50           55           60
53 tgt tgt tct gag gat tgt gaa ggg agc tgc acg atg tgg tgatgacctc      241
54 Cys Cys Ser Glu Asp Cys Glu Gly Ser Cys Thr Met Trp
55             65           70           75

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 60 <211> LENGTH: 76
 61 <212> TYPE: PRT
 62 <213> ORGANISM: Conus ammiralis
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 66 1 5 10 15
 68 Thr Gln Ala Leu Val Glu Arg Ala Gly Glu Asn Arg Ser Lys Glu Asn
 69 20 25 30
 71 Ile Asn Phe Leu Leu Lys Arg Lys Arg Ala Ala Asp Arg Gly Met Trp
 72 35 40 45
 74 Gly Asp Cys Lys Asp Gly Leu Thr Thr Cys Phe Ala Pro Ser Glu Cys
 75 50 55 60
 77 Cys Ser Glu Asp Cys Glu Gly Ser Cys Thr Met Trp
 78 65 70 75
 80 <210> SEQ ID NO: 3
 81 <211> LENGTH: 31
 82 <212> TYPE: PRT
 83 <213> ORGANISM: Conus ammiralis
 85 <220> FEATURE:
 86 <221> NAME/KEY: PEPTIDE
 87 <222> LOCATION: (1)..(31)
 88 <223> OTHER INFORMATION: Xaa at residues 18, 22 and 25 is Glu or gamma-carboxy-Glu;
 Xaa at
 89 residue 16 is Pro or hydroxy-Pro; Xaa at residues 3 and 31is Trp
 90 (D or L) or bromo-Trp (D or L)
 92 <400> SEQUENCE: 3
 W--> 93 Gly Met Xaa Gly Asp Cys Lys Asp Gly Leu Thr Thr Cys Phe Ala Xaa
 94 1 5 10 15
 W--> 96 Ser Xaa Cys Cys Ser Xaa Asp Cys Xaa Gly Ser Cys Thr Met Xaa
 97 20 25 30
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 101 <212> TYPE: DNA
 102 <213> ORGANISM: Conus ammiralis
 104 <220> FEATURE:
 105 <221> NAME/KEY: CDS
 106 <222> LOCATION: (4)..(246)
 108 <400> SEQUENCE: 4
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 111 1 5 10 15
 113 tcg acc cag gcc ctg cct caa ggt ggt gga gaa aaa cgc cca agg gag 96
 114 Ser Thr Gln Ala Leu Pro Gln Gly Gly Glu Lys Arg Pro Arg Glu
 115 20 25 30
 117 aat atc aga ttt tta tca aaa aga aag aca aat gct gag cgt tgg agg 144
 118 Asn Ile Arg Phe Leu Ser Lys Arg Lys Thr Asn Ala Glu Arg Trp Arg
 119 35 40 45
 121 gag ggc agt tgc acc tct tgg tta gcg acg tgt acg caa gac cag caa 192

RAW SEQUENCE LISTING
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Input Set : A:\249 revised sequence.txt
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123      50          55          60
125 tgc tgt act gat gtt tgt tac aaa agg gac tac tgc gcc ttg tgg gat      240
126 Cys Cys Thr Asp Val Cys Tyr Lys Arg Asp Tyr Cys Ala Leu Trp Asp
127      65          70          75
129 gac cgc tgaccacaag ccatctgaca tcaccactct cctgttcaga gtcttcaag      295
130 Asp Arg
131 80
133 <210> SEQ ID NO: 5
134 <211> LENGTH: 81
135 <212> TYPE: PRT
136 <213> ORGANISM: Conus ammiralis
138 <400> SEQUENCE: 5
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140 1           5           10          15
142 Thr Gln Ala Leu Pro Gln Gly Gly Glu Lys Arg Pro Arg Glu Asn
143      20          25          30
145 Ile Arg Phe Leu Ser Lys Arg Lys Thr Asn Ala Glu Arg Trp Arg Glu
146      35          40          45
148 Gly Ser Cys Thr Ser Trp Leu Ala Thr Cys Thr Gln Asp Gln Gln Cys
149      50          55          60
151 Cys Thr Asp Val Cys Tyr Lys Arg Asp Tyr Cys Ala Leu Trp Asp Asp
152 65           70          75          80
154 Arg
156 <210> SEQ ID NO: 6
157 <211> LENGTH: 36
158 <212> TYPE: PRT
159 <213> ORGANISM: Conus ammiralis
161 <220> FEATURE:
162 <221> NAME/KEY: PEPTIDE
163 <222> LOCATION: (1)..(36)
164 <223> OTHER INFORMATION: Xaa at residue 3 is Glu or gamma-carboxy-Glu; Xaa at residues 1,
165 9 and 33 is Trp (D or L) or bromo-Trp (D or L); Xaa at residues 2
166 5 and 29 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-T
167 yr or O-phospho-Tyr
169 <400> SEQUENCE: 6
W--> 170 Xaa Arg Xaa Gly Ser Cys Thr Ser Xaa Leu Ala Thr Cys Thr Gln Asp
171 1           5           10          15
W--> 173 Gln Gln Cys Cys Thr Asp Val Cys Xaa Lys Arg Asp Xaa Cys Ala Leu
174      20          25          30
W--> 176 Xaa Asp Asp Arg
177      35
179 <210> SEQ ID NO: 7
180 <211> LENGTH: 275
181 <212> TYPE: DNA
182 <213> ORGANISM: Conus ammiralis
184 <220> FEATURE:
185 <221> NAME/KEY: CDS
186 <222> LOCATION: (4)..(219)

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residue 2 is Arg not Xaa. Residue 5 is Ser no + Xaa.

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Input Set : A:\249 revised sequence.txt
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 191 1 5 10 15
 193 tcg acc cag gcc ctg ttt caa gaa aaa cgc aca atg aag aag atc gat 96
 194 Ser Thr Gln Ala Leu Phe Gln Glu Lys Arg Thr Met Lys Lys Ile Asp
 195 20 25 30
 197 ttt tta tca aag gga aag gca gat gct gag aag cag agg aag cgc aat 144
 198 Phe Leu Ser Lys Gly Lys Ala Asp Ala Glu Lys Gln Arg Lys Arg Asn
 199 35 40 45
 201 tgc tcg gat gat tgg cag tat tgt gaa agt ccc agt gac tgc tgt agt 192
 202 Cys Ser Asp Asp Trp Gln Tyr Cys Glu Ser Pro Ser Asp Cys Cys Ser
 203 50 55 60
 205 tgg gat tgt gat gtg gtc tgc gga tgaactctga ccacaagtca 239
 206 Trp Asp Cys Asp Val Val Cys Ser Gly
 207 65 70
 209 tccgacatca ccactctcct gttcagaggc ttcaag 275
 211 <210> SEQ ID NO: 8
 212 <211> LENGTH: 72
 213 <212> TYPE: PRT
 214 <213> ORGANISM: Conus ammiralis
 216 <400> SEQUENCE: 8
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 218 1 5 10 15
 220 Thr Gln Ala Leu Phe Gln Glu Lys Arg Thr Met Lys Lys Ile Asp Phe
 221 20 25 30
 223 Leu Ser Lys Gly Lys Ala Asp Ala Glu Lys Gln Arg Lys Arg Asn Cys
 224 35 40 45
 226 Ser Asp Asp Trp Gln Tyr Cys Glu Ser Pro Ser Asp Cys Cys Ser Trp
 227 50 55 60
 229 Asp Cys Asp Val Val Cys Ser Gly
 230 65 70
 232 <210> SEQ ID NO: 9
 233 <211> LENGTH: 25
 234 <212> TYPE: PRT
 235 <213> ORGANISM: Conus ammiralis
 237 <220> FEATURE:
 238 <221> NAME/KEY: PEPTIDE
 239 <222> LOCATION: (1)..(25)
 240 <223> OTHER INFORMATION: Xaa at residue 10 is Glu or gamma-carboxy-Glu; Xaa at residue 12
 241 is Pro or hydroxy-Pro; Xaa at residues 6 and 18 is Trp (D or L) o
 242 r bromo-Trp (D or L); Xaa at residue 8 is Tyr, 125I-Tyr, mono-iod
 243 o-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr
 245 <400> SEQUENCE: 9
 W--> 246 Asn Cys Ser Asp Asp Xaa Gln Xaa Cys Xaa Ser Xaa Ser Asp Cys Cys
 247 1 5 10 15
 W--> 249 Ser Xaa Asp Cys Asp Val Val Cys Ser
 250 20 25
 252 <210> SEQ ID NO: 10

RAW SEQUENCE LISTING

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Input Set : A:\249 revised sequence.txt
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255 <213> ORGANISM: Conus ammiralis
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258 <221> NAME/KEY: CDS
259 <222> LOCATION: (4)..(246)
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263     Met Gln Lys Leu Ile Ile Leu Leu Val Ala Ala Leu Leu Leu
264     1           5           10          15
266 tcg atc cag gcg gta aat caa gaa aaa cac caa cgg gca aag atc aac      96
267 Ser Ile Gln Ala Val Asn Gln Glu Lys His Gln Arg Ala Lys Ile Asn
268     20           25           30
270 ttg ctt tca aag aga aag cca cct gct gag cgt tgg tgg cgg tgg gga      144
271 Leu Leu Ser Lys Arg Lys Pro Pro Ala Glu Arg Trp Trp Arg Trp Gly
272     35           40           45
274 gga tgc atg gct tgg ttt ggg aaa tgt tcg aag gac tcg gaa tgt tgt      192
275 Gly Cys Met Ala Trp Phe Gly Lys Cys Ser Lys Asp Ser Glu Cys Cys
276     50           55           60
278 tct aat agt tgt gac ata acg cgc tgc gag tta atg cga ttc cca cca      240
279 Ser Asn Ser Cys Asp Ile Thr Arg Cys Glu Leu Met Arg Phe Pro Pro
280     65           70           75
282 gac tgg tgacatcgac actctccgt tcagagtctt caag      280
283 Asp Trp
284 80
286 <210> SEQ ID NO: 11
287 <211> LENGTH: 81
288 <212> TYPE: PRT
289 <213> ORGANISM: Conus ammiralis
291 <400> SEQUENCE: 11
292 Met Gln Lys Leu Ile Ile Leu Leu Val Ala Ala Leu Leu Ser      15
293 1           5           10          15
295 Ile Gln Ala Val Asn Gln Glu Lys His Gln Arg Ala Lys Ile Asn Leu
296     20           25           30
298 Leu Ser Lys Arg Lys Pro Pro Ala Glu Arg Trp Trp Arg Trp Gly Gly
299     35           40           45
301 Cys Met Ala Trp Phe Gly Lys Cys Ser Lys Asp Ser Glu Cys Cys Ser
302     50           55           60
304 Asn Ser Cys Asp Ile Thr Arg Cys Glu Leu Met Arg Phe Pro Pro Asp
305     65           70           75          80
306 Trp
308 <210> SEQ ID NO: 12
309 <211> LENGTH: 39
310 <212> TYPE: PRT
311 <213> ORGANISM: Conus ammiralis
313 <220> FEATURE:
314 <221> NAME/KEY: PEPTIDE
315 <222> LOCATION: (1)..(39)
316 <223> OTHER INFORMATION: Xaa at residues 19 and 31 is Glu or gamma-carboxy-Glu; Xaa
at res

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; Xaa Pos. 3,16,18,22,25,31
Seq#:6; Xaa Pos. 1,3,9,25,29,33
Seq#:9; Xaa Pos. 6,8,10,12,18
Seq#:12; Xaa Pos. 1,2,4,10,19,31,36,37,39
Seq#:15; Xaa Pos. 5,8,14,18,19
Seq#:18; Xaa Pos. 3,5,7,8,14,18
Seq#:21; Xaa Pos. 4,7,9,13,17,23,27
Seq#:24; Xaa Pos. 8,13
Seq#:27; Xaa Pos. 8,13
Seq#:30; Xaa Pos. 4,5,11
Seq#:33; Xaa Pos. 4,7,8,11,12,13,14,25,32
Seq#:36; Xaa Pos. 4,7,8,11,13,14,25,32
Seq#:39; Xaa Pos. 4,7,8,11,13,14,21,25,29
Seq#:42; Xaa Pos. 7,8,11,13,14,21,25
Seq#:45; Xaa Pos. 4,5,7,8
Seq#:48; Xaa Pos. 5,6,8,9
Seq#:51; Xaa Pos. 1,2,5,9
Seq#:54; Xaa Pos. 4,5,7,8
Seq#:57; Xaa Pos. 1,2,5,6,9
Seq#:60; Xaa Pos. 2,3,6,15,17,22,23
Seq#:63; Xaa Pos. 5,10
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Seq#:69; Xaa Pos. 10,23,25,35
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Seq#:81; Xaa Pos. 10,23,25,35
Seq#:84; Xaa Pos. 13,35
Seq#:87; Xaa Pos. 9,14,26
Seq#:90; Xaa Pos. 8,13,25
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Seq#:95; Xaa Pos. 11,13,24
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Seq#:119; N Pos. 87,113,128,139,144,165,526,542,586,593,602,612,621,628,639
Seq#:119; N Pos. 640,709,714,722,723,726,729,738,744,748,752,758
Seq#:121; Xaa Pos. 2,3,5,11,13,18,21,30,34,35

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Seq#:185; Xaa Pos. 6,16,26,29,41
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Seq#:331; Xaa Pos. 7,12
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Seq#: 371; Xaa Pos. 5,10
Seq#: 372; Xaa Pos. 2,5,8,17,23,27,32,38,39,41,43,45,58
Seq#: 375; Xaa Pos. 4,5,7,9
Seq#: 376; N Pos. 2,3,8,10,18,21,22,28,32,35,38,39,44,50,52,66,67,76,77,80
Seq#: 376; N Pos. 84,86,88,89,92,96,97,98,99,107,108,111,112,113,114,115,119
Seq#: 376; N Pos. 121,126,130,131,135,136,144,153,154,156,159,166,169,172
Seq#: 376; N Pos. 173,174,175,181,182,184,185,193,194,195,209,213,214,226
Seq#: 376; N Pos. 227,228,230,233,234,235,236,248,250,252,254,257,260,261
Seq#: 376; N Pos. 262,266,269,295,303,331,340,345,380,407,439,525,533
Seq#: 376; Xaa Pos. 3,14
Seq#: 377; Xaa Pos. 3,14
Seq#: 378; Xaa Pos. 1,5,11
Seq#: 381; Xaa Pos. 1,5
Seq#: 384; Xaa Pos. 2,6,10,12
Seq#: 387; Xaa Pos. 2,6
Seq#: 390; Xaa Pos. 6,10,12
Seq#: 393; Xaa Pos. 1,3,8,11,14,16
Seq#: 396; Xaa Pos. 1,3,8,11,14,16
Seq#: 399; Xaa Pos. 2,8,12
Seq#: 402; Xaa Pos. 6,10
Seq#: 403; Xaa Pos. 6,13
Seq#: 404; Xaa Pos. 6,13
Seq#: 407; Xaa Pos. 1,7,14
Seq#: 410; Xaa Pos. 1,2,7,14,15
Seq#: 413; Xaa Pos. 1,2,7,14,15
Seq#: 416; Xaa Pos. 5
Seq#: 417; Xaa Pos. 4,6,11
Seq#: 418; N Pos. 193
Seq#: 420; Xaa Pos. 4,6,7,10,13
Seq#: 423; Xaa Pos. 6,11,12,13,14
Seq#: 424; N Pos. 210
Seq#: 426; Xaa Pos. 2,7,8,14,19
Seq#: 429; Xaa Pos. 5,10,12
Seq#: 432; Xaa Pos. 6,13
Seq#: 435; Xaa Pos. 5,6,12
Seq#: 438; Xaa Pos. 7,8,14
Seq#: 441; Xaa Pos. 6,7,10,13
Seq#: 444; Xaa Pos. 6,7,13
Seq#: 447; Xaa Pos. 6,7,9,15
Seq#: 450; Xaa Pos. 2,7,10,13
Seq#: 453; Xaa Pos. 7,15
Seq#: 454; N Pos. 8,14,15,22,25,27,32,33,37,52,59,60,65,75,78,87,88,93,101
Seq#: 454; N Pos. 104,106,108,110,114,116,120,130,131,132,136,141,146,151
Seq#: 454; N Pos. 157,159,172,175,176,183,184,186,189,190,195,198,201,202
Seq#: 454; N Pos. 206,209,210,211,213,219,220,224,228,235,242,244,250,255
Seq#: 454; N Pos. 258,259,262,269,276,290,294,301,306,308,309,316,318,320

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Seq#:454; N Pos. 322,324,336,372
Seq#:456; Xaa Pos. 6,7,8,9,11,12,14,15,16
Seq#:465; Xaa Pos. 14,26,31
Seq#:467; Xaa Pos. 9,13,17
Seq#:468; Xaa Pos. 16
Seq#:469; Xaa Pos. 13
Seq#:470; Xaa Pos. 16
Seq#:471; Xaa Pos. 1,5,6,10,15,26,33
Seq#:473; Xaa Pos. 3,7,8,14
Seq#:475; Xaa Pos. 16
Seq#:476; Xaa Pos. 18
Seq#:477; Xaa Pos. 18
Seq#:478; Xaa Pos. 19
Seq#:479; Xaa Pos. 9,13
Seq#:531; Xaa Pos. 12
Seq#:532; Xaa Pos. 11
Seq#:542; Xaa Pos. 3
Seq#:543; Xaa Pos. 5,6
Seq#:548; Xaa Pos. 7,13,21,22,27
Seq#:569; Xaa Pos. 4,13,16
Seq#:585; Xaa Pos. 2,3,12,14
Seq#:622; Xaa Pos. 3
Seq#:625; Xaa Pos. 9
Seq#:627; Xaa Pos. 3
Seq#:628; Xaa Pos. 2

VERIFICATION SUMMARY
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Input Set : A:\249 revised sequence.txt
Output Set: N:\CRF3\08132002\J072602A.raw

L:20 M:270 C: Current Application Number differs, Replaced Current Application No
L:20 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:93 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:96 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:16
L:170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:16
L:176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:32
L:246 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:16
L:321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:324 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:16
L:327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:32
L:397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:16
L:469 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:16
L:547 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:550 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:16
L:628 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:709 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:785 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:863 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
L:866 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:16
L:941 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0
L:944 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:16
L:1018 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0
L:1021 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:16
L:1095 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
L:1098 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:16
L:1159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0
L:1220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0
L:1283 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0
L:1344 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:0
L:1407 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0
L:1470 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:0
L:1473 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:16
L:1535 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0
L:1611 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:0
L:1614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:16
L:1690 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:0
L:1693 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:16
L:1696 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:32
L:1772 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:0
L:1775 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:16
L:1778 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:32
L:1856 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:16
L:1859 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:32
L:1937 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:16

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L:1940 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:32
L:2016 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:0
L:2019 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:16
L:2022 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:32